

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1584335

Luminaire Tested: 14CZSP-49HE-L835

Issue Date: 9/3/2026

Test Information

Test Method: LM-79-2019
Report Number: P1584335
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2602-698-1)
Test Lab: INNOVATION CENTER
Issue Date: 9/3/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14CZSP-49HE-L835
Description: 1x4 CZSP LED Luminaire, 3500K CCT and 4500 lumens, 80CRI, Ribbed Lens
Light Source: -
Ballast/Driver: -

Summary

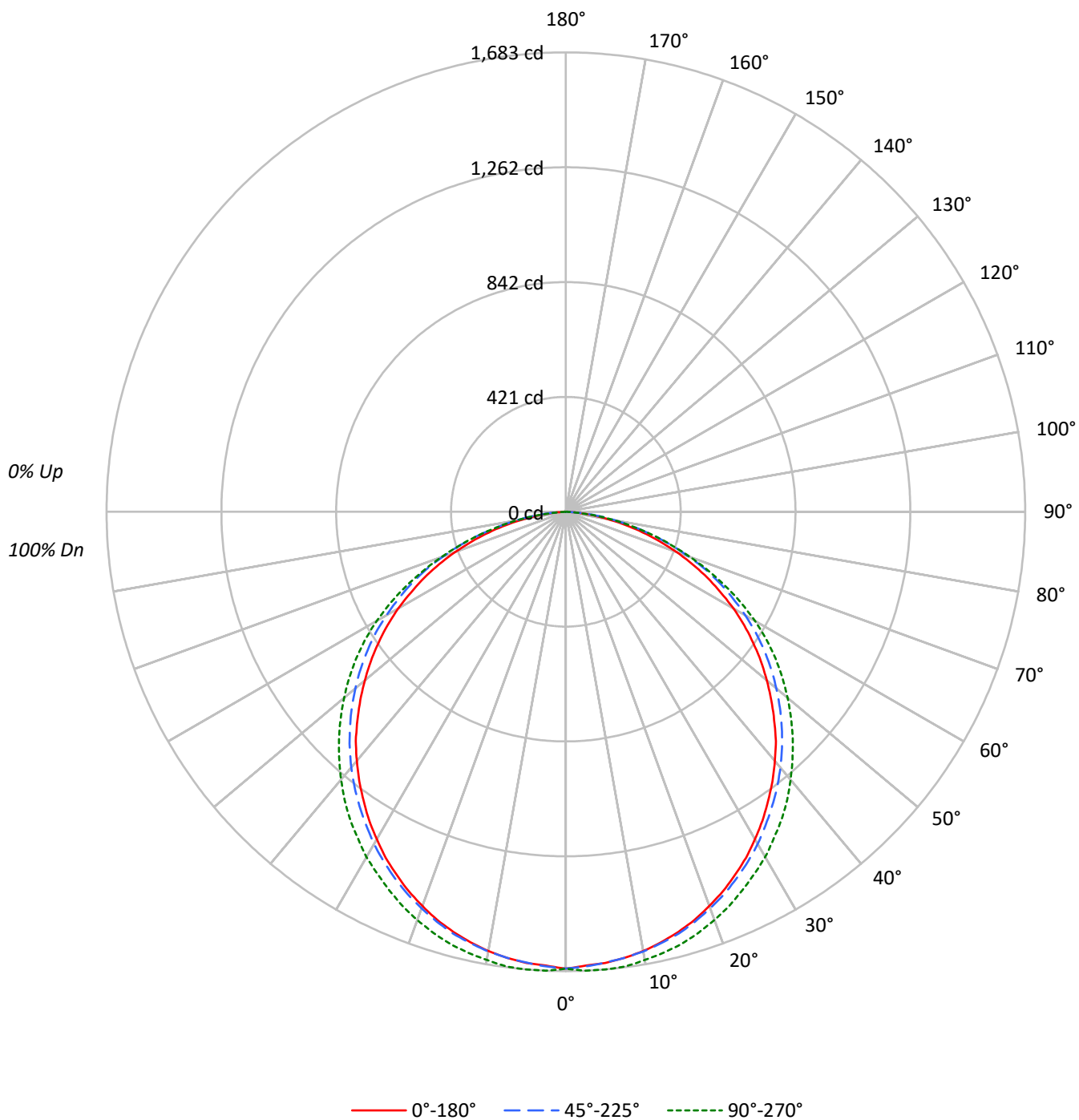
Lumens per Lamp: N/A
Luminaire Lumens: 4821.0 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 33.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		94	91	88		90
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	73	61	53	47	59	52	46		57	51	46		55
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	44	37	32		43	36	32		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5640	5640	5640
5°	5613	5608	5693
10°	5592	5597	5705
15°	5558	5580	5718
20°	5510	5544	5708
25°	5455	5508	5689
30°	5390	5469	5684
35°	5316	5420	5666
40°	5241	5379	5636
45°	5144	5332	5603
50°	5039	5279	5560
55°	4925	5213	5509
60°	4779	5119	5395
65°	4561	4989	5151
70°	4254	4704	4782
75°	3796	4247	4288
80°	3089	3578	3547
85°	2010	2498	1949

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5603 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	3.3
10°-20°	454.2	9.4
20°-30°	688.0	14.3
30°-40°	831.0	17.2
40°-50°	868.1	18.0
50°-60°	795.0	16.5
60°-70°	610.8	12.7
70°-80°	340.1	7.1
80°-90°	75.3	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1300.7	27.0
0°-40°	2131.7	44.2
0°-60°	3794.8	78.7
0°-90°	4821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4821.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1674	1674	1674	1674	1674	
5°	1660	1677	1658	1667	1683	158
15°	1593	1609	1600	1615	1639	449
25°	1467	1484	1481	1504	1530	676
35°	1292	1311	1318	1349	1377	809
45°	1080	1103	1119	1152	1176	833
55°	838	865	887	919	938	749
65°	572	602	626	638	646	565
75°	292	322	326	326	329	309
85°	52	62	65	54	50	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1673.7	1673.7	1673.7	1673.7	1673.7
2.5°	1664.2	1680.0	1667.4	1672.1	1683.1
5°	1659.5	1676.8	1657.9	1667.4	1683.1
7.5°	1648.4	1664.2	1648.4	1659.5	1680.0
10°	1634.3	1651.6	1635.8	1646.9	1667.4
12.5°	1615.4	1629.5	1618.5	1634.3	1654.7
15°	1593.3	1609.0	1599.6	1615.4	1639.0
17.5°	1568.1	1582.3	1574.4	1594.9	1616.9
20°	1536.6	1552.3	1546.0	1566.5	1591.7
22.5°	1505.0	1520.8	1516.1	1536.6	1563.3
25°	1467.2	1484.5	1481.4	1503.5	1530.2
27.5°	1429.4	1446.7	1445.1	1470.4	1495.6
30°	1385.3	1402.6	1405.7	1432.5	1460.9
32.5°	1341.1	1360.0	1361.6	1391.6	1418.4
35°	1292.3	1311.2	1317.5	1349.0	1377.4
37.5°	1243.4	1262.3	1271.8	1301.7	1331.7
40°	1191.4	1211.9	1222.9	1254.5	1281.2
42.5°	1139.4	1159.9	1172.5	1204.0	1229.2
45°	1079.5	1103.2	1118.9	1152.0	1175.7
47.5°	1021.2	1046.4	1063.8	1095.3	1118.9
50°	961.3	988.1	1007.0	1038.6	1060.6
52.5°	901.4	929.8	948.7	978.7	1000.7
55°	838.4	865.2	887.3	918.8	937.7
57.5°	775.4	802.2	825.8	854.2	871.5
60°	709.2	737.5	759.6	788.0	800.6
62.5°	639.8	669.8	691.8	713.9	724.9
65°	572.1	602.0	625.7	638.3	646.1
67.5°	502.7	532.7	554.7	561.0	565.8
70°	431.8	461.8	477.5	480.7	485.4
72.5°	360.9	390.8	403.4	403.4	405.0
75°	291.6	321.5	326.2	326.2	329.4
77.5°	223.8	250.6	253.7	253.7	253.7
80°	159.2	179.7	184.4	184.4	182.8
82.5°	100.9	115.0	122.9	116.6	113.5
85°	52.0	61.5	64.6	53.6	50.4
87.5°	15.8	18.9	15.8	9.5	7.9
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.75	19.40	18.12	19.72	20.03	18.26	19.91	18.63	20.22	20.54
	3H	19.53	21.02	19.90	21.34	21.70	20.06	21.55	20.43	21.87	22.23
	4H	20.15	21.55	20.55	21.90	22.28	20.69	22.09	21.09	22.44	22.82
	6H	20.55	21.85	20.96	22.22	22.61	21.11	22.41	21.52	22.78	23.17
	8H	20.65	21.89	21.07	22.28	22.68	21.22	22.46	21.64	22.85	23.25
	12H	20.70	21.89	21.13	22.27	22.70	21.25	22.45	21.68	22.83	23.26
4H	2H	18.48	19.88	18.87	20.23	20.60	18.87	20.28	19.27	20.62	21.00
	3H	20.47	21.65	20.88	22.04	22.44	20.88	22.06	21.29	22.46	22.86
	4H	21.23	22.29	21.66	22.70	23.14	21.64	22.70	22.07	23.11	23.55
	6H	21.75	22.68	22.20	23.12	23.57	22.17	23.10	22.63	23.54	24.00
	8H	21.88	22.75	22.34	23.19	23.66	22.32	23.19	22.77	23.63	24.09
	12H	21.95	22.74	22.43	23.21	23.68	22.38	23.16	22.86	23.64	24.11
8H	4H	21.56	22.43	22.02	22.87	23.34	21.92	22.79	22.38	23.23	23.70
	6H	22.19	22.91	22.69	23.40	23.88	22.56	23.28	23.06	23.77	24.25
	8H	22.38	23.03	22.89	23.54	24.02	22.76	23.40	23.27	23.91	24.40
	12H	22.51	23.08	23.01	23.57	24.13	22.86	23.43	23.37	23.92	24.49
12H	4H	21.59	22.37	22.07	22.85	23.32	21.95	22.73	22.43	23.20	23.67
	6H	22.24	22.89	22.75	23.40	23.88	22.60	23.25	23.11	23.76	24.24
	8H	22.49	23.06	22.99	23.55	24.11	22.84	23.42	23.35	23.91	24.47